MYSQL QUERY FOR SALES ANALYSIS

1. **Total Revenue**

```
select cast(SUM(total_price) as decimal(10,2) ) as total_revenue from pizza_sales;
```

total_revenue
817860.05

2. **Total Pizza Sold**

```
select SUM(quantity) as total_pizza_sold from pizza_sales;
```

total_pizza_sold
49574

3. **Total Orders**

```
select count(distinct order_id) as total_order from pizza_sales;
```

total_order
21350

4. **Average amount spent per order: total_revenue/total number of orders**

```
SELECT  CAST( SUM(total_price)/COUNT(DISTINCT order_id) AS DECIMAL(10,2))
AS avg_amount_per_order FROM pizza_sales;
```

avg_amount_per_order
38.31

5. **Average pizza per order**

```
select cast( ( SUM(quantity)/count(distinct order_id) ) as decimal(10,2) )
as avg_pizza_per_order from pizza_sales;
```

avg_pizza_per_order
2.32

6. **The daily trend for total order**

```
SELECT DAYNAME(STR_TO_DATE(order_date, '%d-%m-%Y')) AS order_day,
count(distinct order_id) as total_order
FROM pizza_sales
GROUP BY order_day
ORDER BY total_order DESC;
```

order_day	total_order
Friday	3538
Thursday	3239
Saturday	3158
Wednesday	3024
Tuesday	2973
Monday	2794
Sunday	2624

7. **The monthly trend for total order**

```
SELECT  MONTHNAME(STR_TO_DATE(order_date, '%d-%m-%Y')) AS order_month,
count(distinct order_id) as total_order
FROM pizza_sales
GROUP BY order_month
ORDER BY total_order DESC;
```

order_month	total_order
July	1935
May	1853
January	1845
August	1841
March	1840
April	1799
November	1792
June	1773
February	1685
December	1680
September	1661
October	1646

8. **Percentage of sales by pizza category**

```
select distinct pizza_category as category,
cast( sum(total_price) as decimal(10,2)) as total_revenue,
cast( sum(total_price)*100/(select sum(total_price) from pizza_sales) as decimal(10,2) ) as pct
from pizza_sales
group by category
order by pct desc;
```

category	total_revenue	pct
Classic	220053.10	26.91
Supreme	208197.00	25.46
Chicken	195919.50	23.96
Veggie	193690.45	23.68

9. **Percentage of pizza sold by pizza size**

```
select distinct pizza_size as category,
cast( sum(total_price) as decimal(10,2)) as total_revenue,
cast( sum(total_price)*100/(select sum(total_price) from pizza_sales) as decimal(10,2) ) as pct
from pizza_sales
group by category
order by pct desc;
```

category	total_revenue	pct
L	375318.70	45.89
M	249382.25	30.49
S	178076.50	21.77
XL	14076.00	1.72
XXL	1006.60	0.12

10. **Total pizza sold by pizza category**

```
select distinct pizza_category as category, sum(quantity) as total_pizza_sold
from pizza_sales
group by category
order by total_pizza_sold desc;
```

category	total_pizza_sold
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

11. Top 5 pizzas by revenue

```
SELECT distinct pizza_name, cast(SUM(total_price) as decimal(10,2)) AS Total_Revenue
FROM pizza_sales
GROUP BY pizza_name
ORDER BY Total_Revenue DESC
limit 5;
```

pizza_name	Total_Revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768.00
The California Chicken Pizza	41409.50
The Classic Deluxe Pizza	38180.50
The Spicy Italian Pizza	34831.25

12. Bottom 5 pizzas by revenue

```
SELECT distinct pizza_name, cast(SUM(total_price) as decimal(10,2)) AS Total_Revenue
FROM pizza_sales
GROUP BY pizza_name
ORDER BY Total_Revenue
limit 5;
```

pizza_name	Total_Revenue
The Brie Carre Pizza	11588.50
The Green Garden Pizza	13955.75
The Spinach Supreme Pizza	15277.75
The Mediterranean Pizza	15360.50
The Spinach Pesto Pizza	15596.00

13. Busy time zone in a day

```
SELECT order_time, SUM(quantity) AS total_pizza_sold,
CAST(SUM(total_price) AS DECIMAL(10,2)) AS Total_Revenue
FROM pizza_sales
GROUP BY order_time
HAVING total_pizza_sold > 20
ORDER BY order_time;
```

order_time	total_pizza_sold	Total_Revenue
11:50:01	23	357.50
11:57:15	22	342.25
11:59:10	25	391.75
12:14:18	21	337.90
12:18:44	22	366.20
12:25:12	28	444.20
12:26:04	24	390.15
12:32:00	27	460.20
12:52:36	25	400.75
12:53:29	25	419.75
12:58:32	21	372.35
13:31:27	25	417.15
13:58:37	23	355.00

14. Less busy time zone in a day

```
SELECT order_time, SUM(quantity) AS total_pizza_sold,
CAST(SUM(total_price) AS DECIMAL(10,2)) AS Total_Revenue
FROM pizza_sales
GROUP BY order_time
HAVING total_pizza_sold < 2
ORDER BY order_time
LIMIT 15;
```

order_time	total_pizza_sold	Total_Revenue
10:25:19	1	12.50
10:54:15	1	20.75
11:15:07	1	20.75
11:15:34	1	16.25
11:15:42	1	16.00
11:15:43	1	11.00
11:15:53	1	20.25
11:15:56	1	20.25
11:15:58	1	12.50
11:16:08	1	18.50
11:16:11	1	25.50
11:16:16	1	20.50
11:16:26	1	16.75
11:16:47	1	20.25
11:16:51	1	16.00